

# Guntars Zvejnieks

## List of Publications by Year in descending order

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36  
papers

241  
citations

1040056

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h-index

1058476

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36  
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36  
docs citations

36  
times ranked

226  
citing authors

#	ARTICLE	IF	CITATIONS
1	Single oxygen vacancy in BaCoO <sub>3</sub> : Hybrid DFT calculations and local site symmetry approach. Solid State Ionics, 2022, 375, 115835.	2.7	0
2	Oxygen Vacancy Formation and Migration within the Antiphase Boundaries in Lanthanum Scandate-Based Oxides: Computational Study. Materials, 2022, 15, 2695.	2.9	0
3	BaCoO <sub>3</sub> monoclinic structure and chemical bonding analysis: hybrid DFT calculations. Physical Chemistry Chemical Physics, 2021, 23, 17493-17501.	2.8	4
4	Water Splitting on Multifaceted SrTiO <sub>3</sub> Nanocrystals: Computational Study. Catalysts, 2021, 11, 1326.	3.5	7
5	<i>Ab initio</i> calculations of structural, electronic and vibrational properties of BaTiO <sub>3</sub> and SrTiO <sub>3</sub> perovskite crystals with oxygen vacancies. Low Temperature Physics, 2020, 46, 1185-1195.	0.6	26
6	Ab initio simulation of (Ba,Sr)TiO <sub>3</sub> and (Ba,Ca)TiO <sub>3</sub> perovskite solid solutions. Solid State Ionics, 2019, 337, 76-81.	2.7	13
7	Manifestation of dipole-induced disorder in self-assembly of ferroelectric and ferromagnetic nanocubes. Nanoscale, 2019, 11, 7293-7303.	5.6	10
8	Interface-induced enhancement of piezoelectricity in the (SrTiO <sub>3</sub> ) <sub>m</sub> /(BaTiO <sub>3</sub> ) <sub>n</sub> superlattice for energy harvesting applications. Physical Chemistry Chemical Physics, 2019, 21, 23541-23551.	2.8	9
9	Theoretical and Experimental Study of (Ba,Sr)TiO <sub>3</sub> Perovskite Solid Solutions and BaTiO <sub>3</sub> /SrTiO <sub>3</sub> Heterostructures. Journal of Physical Chemistry C, 2019, 123, 2031-2036.	3.1	18
10	Kinetic Monte Carlo modeling of Y <sub>2</sub> O <sub>3</sub> nano-cluster formation in radiation resistant matrices. Nuclear Instruments & Methods in Physics Research B, 2018, 434, 13-22.	1.4	0
11	Electromechanical Properties of Ba <sub>1-x</sub> Sr <sub>x</sub> TiO <sub>3</sub> Perovskite Solid Solutions from First-Principles Calculations. Journal of Physical Chemistry A, 2017, 121, 9409-9414.	2.5	11
12	Void lattice formation in electron irradiated CaF <sub>2</sub> : Statistical analysis of experimental data and cellular automata simulations. Nuclear Instruments & Methods in Physics Research B, 2016, 368, 138-143.	1.4	6
13	Effects of pressure, temperature and atomic exchanges on phase separation dynamics in Au/Ni(111) surface alloy: Kinetic Monte Carlo study. Journal of Alloys and Compounds, 2015, 649, 313-319.	5.5	6
14	Statistical characterization of self-assembled charged nanoparticle structures. Physica Status Solidi (A) Applications and Materials Science, 2014, 211, 288-293.	1.8	3
15	Theory of non-equilibrium critical phenomena in three-dimensional condensed systems of charged mobile nanoparticles. Physical Chemistry Chemical Physics, 2014, 16, 13974-13983.	2.8	5
16	Kinetic Monte Carlo modeling of reaction-induced phase separation in Au/Ni(111) surface alloy. Surface and Coatings Technology, 2014, 255, 15-21.	4.8	4
17	Quantum chemical study of electron-phonon interaction in crystals. Physica Status Solidi C: Current Topics in Solid State Physics, 2013, 10, 705-708.	0.8	2
18	Pattern Formation Kinetics for Charged Molecules on Surfaces: Microscopic Correlation Function Analysis. Journal of Physical Chemistry B, 2011, 115, 14626-14633.	2.6	5

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19	Atomic and electronic structure of both perfect and nanostructured Ni(111) surfaces: First-principles calculations. <i>Thin Solid Films</i> , 2011, 519, 3745-3751.	1.8	9
20	Atomistic theory of mesoscopic pattern formation induced by bimolecular surface reactions between oppositely charged molecules. <i>Journal of Chemical Physics</i> , 2011, 135, 224503.	3.0	5
21	Void superlattice formation in electron irradiated CaF <sub>2</sub> : Theoretical analysis. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2010, 268, 3055-3058.	1.4	4
22	Microscopic approach to the kinetics of pattern formation of charged molecules on surfaces. <i>Physical Review E</i> , 2010, 82, 021602.	2.1	8
23	Simulation of oxidized silicon stripe formation on Pd(111). <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2009, 6, 2731-2733.	0.8	0
24	Simulation of Reaction-Induced Phase Separation in Surface Alloy. <i>Acta Physica Polonica A</i> , 2008, 113, 1099-1102.	0.5	0
25	Stochastization as a possible cause for fast reconnection during MHD mode activity in the ASDEX Upgrade tokamak. <i>Nuclear Fusion</i> , 2006, 46, 741-751.	3.5	28
26	Modelling of phase transitions and reaction at CO adsorption on oxygen precovered Pd(111). <i>Applied Surface Science</i> , 2006, 252, 5395-5398.	6.1	5
27	Surface phase transitions at O and CO catalytic reaction on Pd(111). <i>Catalysis Today</i> , 2006, 116, 62-68.	4.4	9
28	Were the chaotic ELMs in TCV the result of an ARMA process?. <i>Plasma Physics and Controlled Fusion</i> , 2004, 46, L15-L21.	2.1	6
29	Autoregressive moving average model for analyzing edge localized mode time series on Axially Symmetric Divertor Experiment (ASDEX) Upgrade tokamak. <i>Physics of Plasmas</i> , 2004, 11, 5658-5667.	1.9	10
30	The kinetic MC modelling of reversible pattern formation in initial stages of thin metallic film growth on crystalline substrates. <i>Solid State Communications</i> , 2003, 125, 463-467.	1.9	2
31	Reply to "Comment on "Monte Carlo simulations for a Lotka-type model with reactant surface diffusion and interactions" ". <i>Physical Review E</i> , 2002, 65, 033102.	2.1	2
32	Model of the catalytic A + B → O reaction with surface reconstruction. <i>Physical Review E</i> , 2002, 66, 021109.	2.1	2
33	Monte Carlo simulations for a Lotka-type model with reactant surface diffusion and interactions. <i>Physical Review E</i> , 2001, 63, 051104.	2.1	19
34	Monte Carlo simulations of the periodically forced autocatalytic A + B → 2B reaction. <i>Physical Review E</i> , 2000, 61, 4593-4598.	2.1	3
35	The Diffusion-Controlled Energy Transfer Rate for a Paired Sink Distribution and Donor-Acceptor Interaction. <i>Physica Status Solidi (B): Basic Research</i> , 1997, 201, 339-342.	1.5	0
36	The effect of the particle generation function on the rate of the diffusion-controlled A + B → B reaction with a permanent particle source. <i>Chemical Physics Letters</i> , 1997, 270, 229-233.	2.6	0